L	Hits	Search Text	DB	Time stamp
Number 1	200	(receiving or receive or received) near3	USPAT;	2004/04/21
•		(entire or complete or whole or all) near6	US-PGPUB;	09:49
		(packet or frame or message) with (before	EPO; JPO;	551.15
		or prior or unless or until or after or	IBM_TDB	
		previous) with (send or sent or sending or	15155	
		respond or responding or reply or replying or		
		ack or acknowledge\$1 or		
		acknowledg\$1ment)		
_	162	((receiving or receive or received) near3	USPAT;	2004/04/21
2	102	,,,	US-PGPUB;	09:57
		(entire or complete or whole or all) near6		09:57
		(packet or frame or message) with (before	EPO; JPO;	
		or prior or unless or until or after or	IBM_TDB	
		previous) with (send or sent or sending or		
		respond or responding or reply or replying or		
		ack or acknowledge\$1 or		
		acknowledg\$1ment) ) and (@ad<20001128 or		
		@prad<20001128)		
3	46	(((receiving or receive or received) near3	USPAT;	2004/04/21
		(entire or complete or whole or all) near6	US-PGPUB;	09:55
		(packet or frame or message) with (before	EPO; JPO;	
		or prior or unless or until or after or	IBM_TDB	
		previous) with (send or sent or sending or		
		respond or responding or reply or replying or		
		ack or acknowledge\$1 or		
		acknowledg\$1ment) ) and (@ad<20001128 or		
		@prad<20001128)) and latency		
4	149	(send\$3 or transmit\$4) near4 next near4	USPAT;	2004/04/21
		(portion or frame or packet) with (receiv\$4	US-PGPUB;	09:57
		or receipt) near4 (ack or	EPO; JPO;	
		acknowledg\$1ment)	IBM_TDB	
5	107	((send\$3 or transmit\$4) near4 next near4	USPAT;	2004/04/21
		(portion or frame or packet) with (receiv\$4	US-PGPUB;	09:57
		or receipt) near4 (ack or	EPO; JPO;	
1		acknowledg\$1ment)) and (709/\$.ccls. or	IBM_TDB	
		370/\$.ccis.)	<u></u>	
6	60	(((send\$3 or transmit\$4) near4 next near4	USPAT;	2004/04/21
_		((series) of trainshifts) heart next heart (portion or frame or packet) with (receiv\$4	US-PGPUB;	10:33
		or receipt) near4 (ack or	EPO; JPO;	
		acknowledg\$1ment)) and (709/\$.ccls. or	IBM_TDB	
		370/\$.ccls.)) and (@ad<20001128 or	10111_100	
		,,		
_	_	@prad<20001128)	HEDAT:	2004/04/24
7	1	"stop and wait"	USPAT;	2004/04/21
			US-PGPUB;	10:28
			EPO; JPO;	
_			IBM_TDB	
8	32	multiplex\$3 near5 (stream or request) near4	USPAT;	2004/04/21
		(server or servent) with client	US-PGPUB;	10:42
			EPO; JPO;	
			IBM_TDB	

near4 (server or servent) with client) and (@ad<20001128 or @prad<20001128)  10 3 "6343067"  11 0 video near3 server same multiplex\$4 with client  12 11 video near3 server same multiplex\$4 with client  13 video near3 server same multiplex\$4 with client  14 video near3 server same multiplex\$4 with client  15 video near3 server same multiplex\$4 with client  16 video near3 server same multiplex\$4 with client  17 video near3 server same multiplex\$4 with client  18 video near3 server same multiplex\$4 with client  19 video near3 server same multiplex\$4 with client	4/04/21 7 4/04/21 7 4/04/21
(@ad<20001128 or @prad<20001128)  EPO; JPO; IBM_TDB USPAT; 2004 US-PGPUB; EPO; JPO; IBM_TDB  11 0 video near3 server same multiplex\$4 with clietn  12 11 video near3 server same multiplex\$4 with client  14 video near3 server same multiplex\$4 with client  15 video near3 server same multiplex\$4 with client  16 video near3 server same multiplex\$4 with client  17 video near3 server same multiplex\$4 with client  18 video near3 server same multiplex\$4 with client  19 video near3 server same multiplex\$4 with client  10 video near3 server same multiplex\$4 with client  11 video near3 server same multiplex\$4 with client  12 US-PGPUB; 12:22 EPO; JPO; IBM_TDB  13 video near3 server same multiplex\$4 with client  19 video near3 server same multiplex\$4 with client  10 video near3 server same multiplex\$4 with client  11 video near3 server same multiplex\$4 with client  12 US-PGPUB; 12:22 EPO; JPO; IBM_TDB  13 video near3 server same multiplex\$4 with client  14 video near3 server same multiplex\$4 with client  15 video near3 server same multiplex\$4 with client  16 video near3 server same multiplex\$4 with client  17 video near3 server same multiplex\$4 with client  18 video near3 server same multiplex\$4 with client  19 video near3 server same multiplex\$4 with client  10 video near3 server same multiplex\$4 with client  11 video near3 server same multiplex\$4 with client  12 video near3 server same multiplex\$4 with client  12 video near3 server same multiplex\$4 with client  13 video near3 server same multiplex\$4 with client  14 video near3 server same multiplex\$4 with client  15 video near3 server same multiplex\$4 with client  16 video near3 server same multiplex\$4 with client  17 video near3 server same multiplex\$4 with client	4/04/21 7 4/04/21 7 4/04/21
10   3   "6343067"   USPAT;   2004   USPAT;	7 4/04/21 7 4/04/21 7
10 3 "6343067" US-PGPUB; 12:2' EPO; JPO; IBM_TDB  11 0 video near3 server same multiplex\$4 with clietn  12 11 video near3 server same multiplex\$4 with client  13 video near3 server same multiplex\$4 with client  14 video near3 server same multiplex\$4 with client  15 EPO; JPO; IBM_TDB  16 US-PGPUB; 12:2' EPO; JPO; IBM_TDB  17 US-PGPUB; 12:2' EPO; JPO; IBM_TDB  18 multiplex\$3 near5 (request or response) USPAT; 2004  19 Note that the property of	7 4/04/21 7 4/04/21 7
US-PGPUB; EPO; JPO; IBM_TDB  11 0 video near3 server same multiplex\$4 with clietn  12 11 video near3 server same multiplex\$4 with client  13 video near3 server same multiplex\$4 with client  14 video near3 server same multiplex\$4 with client  15 US-PGPUB; 12:2  16 EPO; JPO; IBM_TDB  17 US-PGPUB; 12:2  18 multiplex\$3 near5 (request or response) USPAT; 2004  18 multiplex\$3 near5 (request or response) USPAT; 2004  18 US-PGPUB; 12:3	7 4/04/21 7 4/04/21 7
11 0 video near3 server same multiplex\$4 with clietn US-PGPUB; 12:2 EPO; JPO; IBM_TDB  12 11 video near3 server same multiplex\$4 with client US-PGPUB; 12:2 EPO; JPO; IBM_TDB  12 15 video near3 server same multiplex\$4 with client US-PGPUB; 12:2 EPO; JPO; IBM_TDB  13 multiplex\$3 near5 (request or response) USPAT; 2004 inear5 (client or server) US-PGPUB; 12:3	4/04/21 7 4/04/21 7
11 0 video near3 server same multiplex\$4 with clietn US-PGPUB; EPO; JPO; IBM_TDB  12 11 video near3 server same multiplex\$4 with client US-PGPUB; EPO; JPO; IBM_TDB  13 In the server same multiplex\$4 with client US-PGPUB; EPO; JPO; IBM_TDB  14 In the server same multiplex\$4 with client US-PGPUB; I2:2 EPO; JPO; IBM_TDB  15 In the server same multiplex\$4 with client US-PGPUB; I2:3 In the server same multiplex\$4 with US-PGPUB; I2:3 In the server same same multiplex\$4 with US-PGPUB; I2:3 In the server same same same same same same same same	7 4/04/21 7
11 0 video near3 server same multiplex\$4 with clietn  12 11 video near3 server same multiplex\$4 with client  13 video near3 server same multiplex\$4 with client  14 video near3 server same multiplex\$4 with client  15 video near3 server same multiplex\$4 with client  16 video near3 server same multiplex\$4 with client  17 video near3 server same multiplex\$4 with client  18 video near3 server same multiplex\$4 with client  19 video near3 server same multiplex\$4 with client  10 video near3 server same multiplex\$4 with client  10 video near3 server same multiplex\$4 with client  11 video near3 server same multiplex\$4 with client  12 video near3 server same multiplex\$4 with client  13 video near3 server same multiplex\$4 with client  14 video near3 server same multiplex\$4 with client  15 video near3 server same multiplex\$4 with client  16 video near3 server same multiplex\$4 with client  17 video near3 server same multiplex\$4 with client  18 video near3 server same multiplex\$4 with client  19 video near3 server same multiplex\$4 with client  10 video near	7 4/04/21 7
clietn  clietn  US-PGPUB; EPO; JPO; IBM_TDB  12	7 4/04/21 7
11 video near3 server same multiplex\$4 with client US-PGPUB; 12:2  EPO; JPO; IBM_TDB US-PGPUB; 12:2  EPO; JPO; IBM_TDB  IBM_TDB  WISPAT; 2004  EPO; JPO; IBM_TDB  US-PGPUB; 12:3	4/04/21 7
12 11 video near3 server same multiplex\$4 with Client US-PGPUB; 12:2 EPO; JPO; IBM_TDB  - 86 multiplex\$3 near5 (request or response) USPAT; 2004 near5 (client or server) US-PGPUB; 12:3	7
11 video near3 server same multiplex\$4 with client US-PGPUB; 12:2 EPO; JPO; IBM_TDB  - 86 multiplex\$3 near5 (request or response) US-PGPUB; 2004 near5 (client or server) US-PGPUB; 12:3	7
client  Client  US-PGPUB; EPO; JPO; IBM_TDB  multiplex\$3 near5 (request or response) Near5 (client or server)  US-PGPUB; 12:2' EPO; JPO; IBM_TDB USPAT; 2004	7
EPO; JPO; IBM_TDB  multiplex\$3 near5 (request or response) USPAT; 2004 near5 (client or server) US-PGPUB; 12:3	
- 86 multiplex\$3 near5 (request or response) USPAT; 2004 near5 (client or server) US-PGPUB; 12:3	V04/20
- 86 multiplex\$3 near5 (request or response) USPAT; 2004 near5 (client or server) US-PGPUB; 12:3	1/04/20
near5 (client or server) US-PGPUB; 12:3	
,	
EFU; JPU;	
IBM_TDB	
	1/04/09
US-PGPUB; 12:4	8
EPO; JPO;	
IBM_TDB	
- 0 "200300110206" USPAT; 2004	1/04/09
US-PGPUB; 12:4	8
EPO; JPO;	
IBM_TDB	
- 0 2003/0110206 USPAT; 2004	1/04/09
US-PGPUB; 12:4	8
EPO; JPO;	
IBM_TDB	
	4/04/09
US-PGPUB; 15:0	6
EPO; JPO;	
IBM_TDB	
	4/04/09 _
12:5	
ping and pang and manipan	4/04/09
US-PGPUB; 13:1	<b>3</b>
EPO; JPO;	
IBM_TDB	1/04/00
(ping and peng and manupolity and	4/04/09 6
(broadcast\$3 with neighbor or gnutella) US-PGPUB; 13:3	0
EPO; JPO; IBM_TDB	
	1/04/09
US-PGPUB; 13:30	
EPO; JPO;	•
IBM_TDB	
	1/04/09
@prad<20001128) US-PGPUB; 15:1	
EPO; JPO;	-
IBM_TDB	ļ

(prohibit\$3 or prevent\$4) near4 ((send\$3 near5 response) or responding)  ((prohibit\$3 or prevent\$4) near4 ((send\$3 near5 response) or responding)) with	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/09 15:08
((prohibit\$3 or prevent\$4) near4 ((send\$3	EPO; JPO; IBM_TDB	10.00
1,11	IBM_TDB	
1,11		
1,11	USPAT;	2004/04/09
nears response) or responding)) with	US-PGPUB;	15:10
(receiv\$3 or ack or acknowledg\$5)	EPO; JPO;	15115
(10001140 01 201110 1102540)	IBM_TDB	
(broadcast\$3 or propagat\$4) with	USPAT;	2004/04/09
•	US-PGPUB;	15:12
	EPO; JPO;	
	IBM_TDB	
multiplex\$3	USPAT;	2004/04/09
	US-PGPUB;	15:12
	EPO; JPO;	
	IBM_TDB	
((broadcast\$3 or propagat\$4) with	USPAT;	2004/04/09
(neighbor\$3 or next or node)) and	US-PGPUB;	15:12
multiplex\$3	1 ' '	
	_	
	1	2004/04/09
		15:16
j ,		
	IBM_TDB	
	HEDAT.	2004/04/09
broadcast adj routing or flood adj routing	r ·	15:16
	•	13.10
	i	
(broadcast adi routing or flood adi routing)	_	2004/04/09
, -	•	15:16
	EPO; JPO;	
	IBM_TDB	
((broadcast adj routing or flood adj routing)	USPAT;	2004/04/21
and multiplex\$3) and (@ad<20001128 or	US-PGPUB;	09:50
@prad<20001128)	EPO; JPO;	
	IBM_TDB	
flow near3 control\$3 with (network or	USPAT;	2004/04/20
distributed near3 (system or computer))	US-PGPUB;	12:38
	EPO; JPO;	
	IBM_TDB	
1.ti,ab,clm.		2004/04/20
	i .	12:40
	l .	
(magnitude of pagnitude of pagnitude)	_	2004/04/20
,		2004/04/20
, , , , , , , , , , , , , , , , , , , ,		13:00
• • • • • • • • • • • • • • • • • • • •	, ,	
-	1 DB	
	((broadcast\$3 or propagat\$4) with (neighbor\$3 or next or node)) and multiplex\$3  (((prohibit\$3 or prevent\$4) near4 ((send\$3 near5 response) or responding)) with (receiv\$3 or ack or acknowledg\$5)) and (((broadcast\$3 or propagat\$4) with (neighbor\$3 or next or node)) and multiplex\$3) broadcast adj routing or flood adj routing and multiplex\$3  ((broadcast adj routing or flood adj routing) and multiplex\$3  ((broadcast adj routing or flood adj routing) and multiplex\$3) and (@ad<20001128 or @prad<20001128)  flow near3 control\$3 with (network or	(neighbor\$3 or next or node)  multiplex\$3  ((broadcast\$3 or propagat\$4) with (neighbor\$3 or next or node)) and multiplex\$3  (((prohibit\$3 or prevent\$4) near4 ((send\$3 near5 response) or responding)) with (receiv\$3 or ack or acknowledg\$5)) and (((broadcast\$3 or propagat\$4) with (neighbor\$3 or next or node)) and multiplex\$3  broadcast adj routing or flood adj routing uspAT; Us-PGPUB; EPO; JPO; IBM_TDB  ((broadcast adj routing or flood adj routing) and multiplex\$3  broadcast adj routing or flood adj routing) and multiplex\$3  (((broadcast adj routing or flood adj routing) and multiplex\$3 and (@ad<20001128 or @prad<20001128)  flow near3 control\$3 with (network or distributed near3 (system or computer))  1.ti,ab,clm.  (receiving or receive or received) near3 (entire or complete or whole) near3 (packet or frame or message) with (before or prior or unless or until or after) with (send or sent)  US-PGPUB; EPO; JPO; IBM_TDB US-PAT; US-PGPUB; EPO; JPO; IBM_TDB

•	21	(flow near3 control\$3 with (network or	USPAT;	2004/04/20
		distributed near3 (system or computer)))	US-PGPUB;	12:48
		and ((receiving or receive or received) near3	EPO; JPO;	
		(entire or complete or whole) near3 (packet	IBM_TDB	
		or frame or message) with (before or prior or		
		unless or until or after) with (send or sent		
		or sending))		
	139	(receiving or receive or received) near3	USPAT;	2004/04/20
		(entire or complete or whole or all) near6	US-PGPUB;	13:00
		(packet or frame or message) with (before	EPO; JPO;	
		or prior or unless or until or after) with (send	IBM_TDB	
		or sent or sending)		
	161	(receiving or receive or received) near3	USPAT;	2004/04/21
		(entire or complete or whole or all) near6	US-PGPUB;	09:48
		(packet or frame or message) with (before	EPO; JPO;	
		or prior or unless or until or after) with (send	IBM_TDB	
		or sent or sending or respond or responding		
		or reply or replying)		
	108	((receiving or receive or received) near3	USPAT;	2004/04/20
		(entire or complete or whole or all) near6	US-PGPUB;	13:27
		(packet or frame or message) with (before	EPO; JPO;	
		or prior or unless or until or after) with (send	IBM_TDB	
		or sent or sending or respond or responding		
		or reply or replying) ) and (@ad<20001129 or		
		@prad<20001129) not ((flow near3 control\$3		
		with (network or distributed near3 (system		
		or computer))) and ((receiving or receive or		
		received) near3 (entire or complete or		,
		whole) near3 (packet or frame or message)		
		with (before or prior or unless or until or		
		after) with (send or sent or sending)))		

	L#	Hits	Search Text	DBs
1	L1	86	multiplex\$3 near5 (request or response) near5 (client or server)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
2	L2	0	2003/00110206	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
3	L3	0	"200300110206"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
4	L4	0	2003/0110206	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
5	L5	1	"20030110206"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
6	L6	0	20030110206.URPN.	USPAT
7	L7	375	ping and pong and multiplex	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
8	L8	4	7 and (broadcast\$3 with neighbor or gnutella)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
9	L9	183	gnutella	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
10	L10	10	9 and (@ad<20001128 or @prad<20001128)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
11	L11	2409	(prohibit\$3 or prevent\$4) near4 ((send\$3 near5 response) or responding)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
12	L12	222	11 with (receiv\$3 or ack or acknowledg\$5)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
13	L13	20513	(broadcast\$3 or propagat\$4) with (neighbor\$3 or next or node)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
14	L14	22012 3	multiplex\$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
15	L15	6508	13 and 14	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
16	L16	4	12 and 15	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
17	L17	154	broadcast adj routing or flood adj routing	USPAT; US-PGPUB; EPO; JPO; IBM_TDB

	L#	Hits	Search Text	DBs
18	L18	43	17 and multiplex\$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
19	L19	33	18 and (@ad<20001128 or @prad<20001128)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
20	L20	32	servent	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
21	L21	18	20 and (@ad<20001128 or @prad<20001128)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
22	L22	885	(broadcast\$3 or propagat\$4) near3 (neighbor\$3)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
23	L23	75	22 and (peer-to-peer or p2p)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
24	L24	76	22 and ((peer-to-peer or p2p) or servent or gnutella)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
25	L25	22	24 and (@ad<20001128 or @prad<20001128)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
26	L26	9	25 and multiplex\$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB
27	L27	13	25 not 26	USPAT; US-PGPUB; EPO; JPO; IBM_TDB

## Edelman, Bradley

## Google.com Search:

gnutella

"gnutella 0.4 protocol"

ping pong ttl broadcast

"broadcast routing" neighbor multiplex

multiplex "flow control" request response

## ProQuest Search:

gnutella

"gnutella 0.4 protocol"

ping and pong and ttl and broadcast

"broadcast routing" and neighbor and multiplex

multiplex and "flow control" and request and response

multiplex? and stream and control? w/4 flow and (gnutella or ttl or broadcast? w/5 (neighbor or adjacent or next))